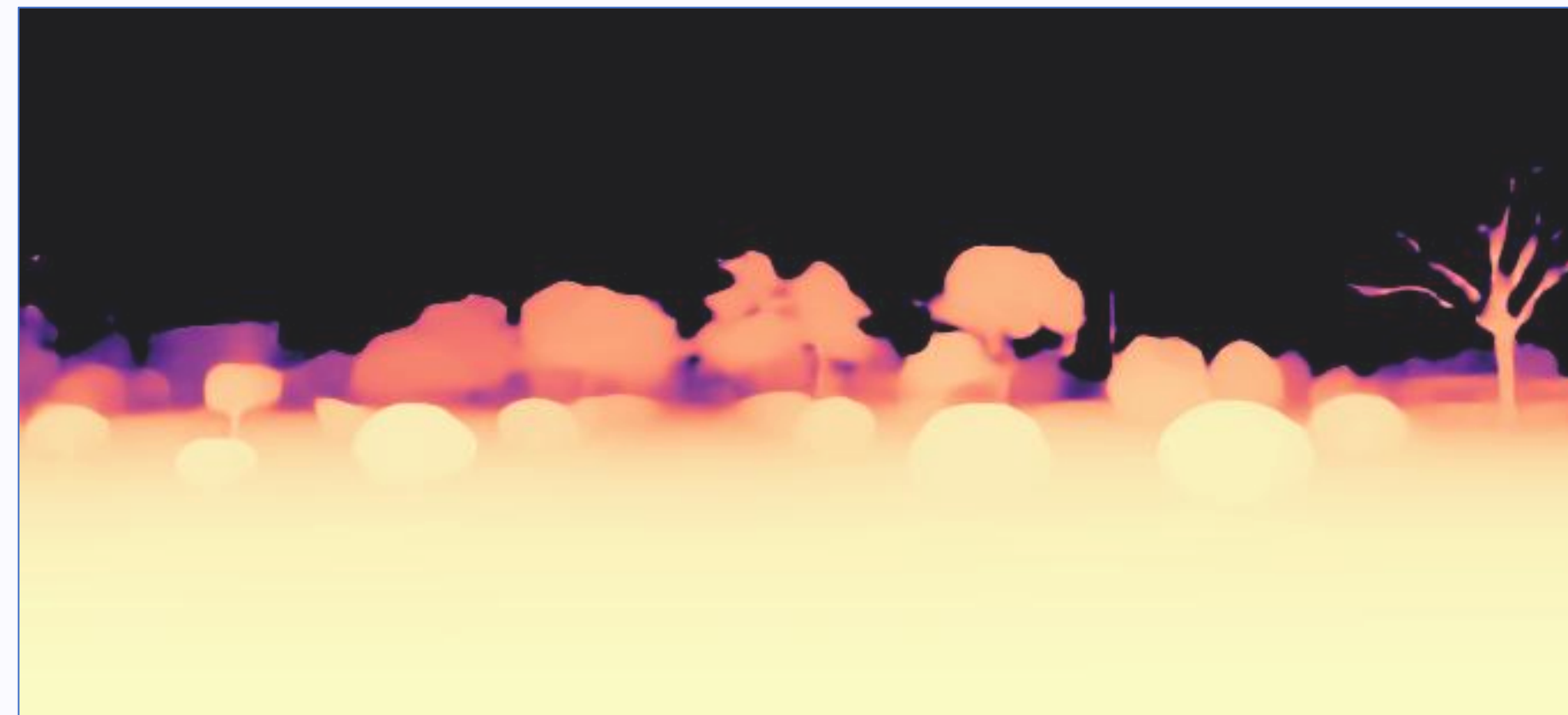


# Panoramic Depth Estimation



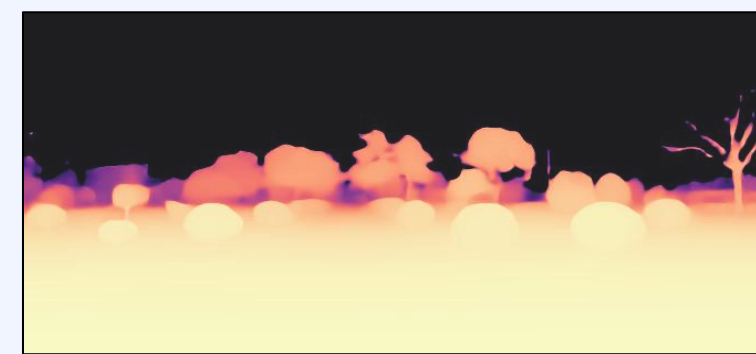
Panoramic Depth Estimation Network ❄️



## UAV States

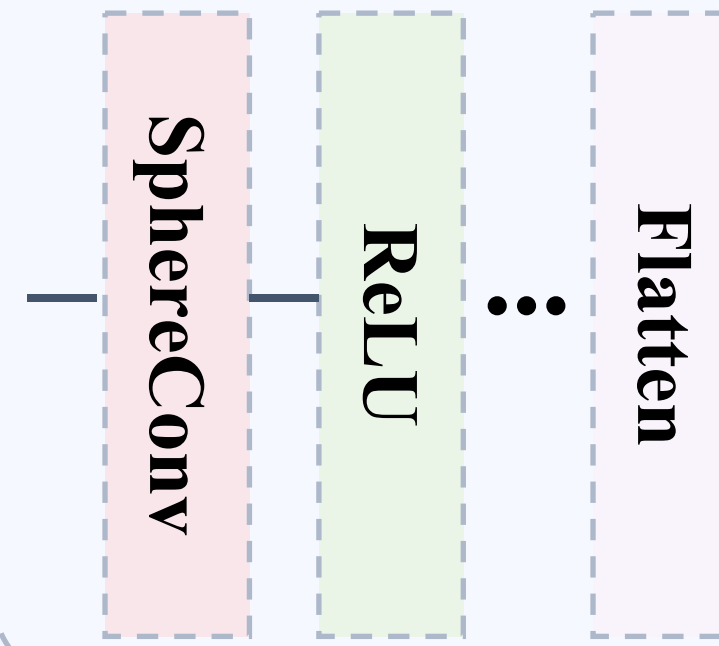
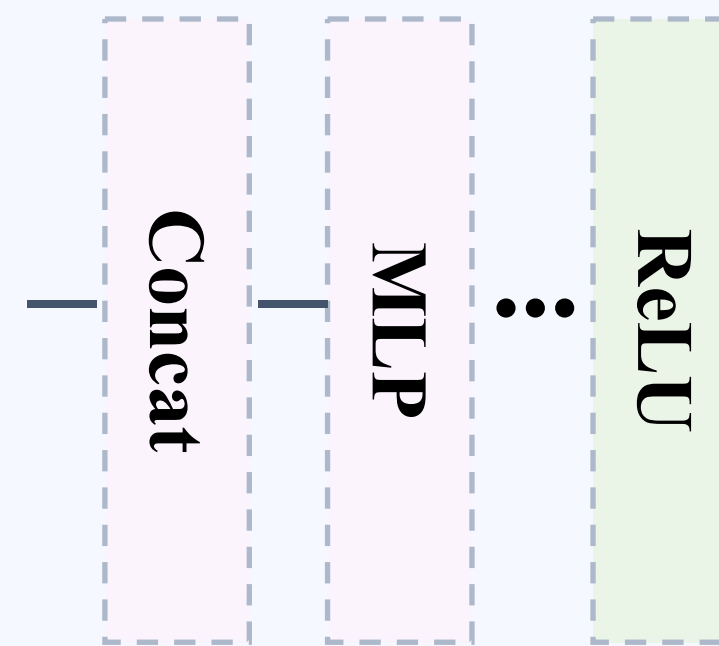


## Low-resolution Depth



$64 \times 128$

## Policy Network 🔥



MLP

$v_x$   
 $v_y$   
 $v_z$

## Training

Differentiable Simulator

Objective function

- Velocity tracking
- Collision penalty
- ...
- Velocity smoothness

## Inference

Velocity Flight Controller

Rotor-level Control

